ECE3161

Mini-Project Proposal Template

Team members:

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Project title:

Ultrasonic Reverse Sensor with Audible Distance Detector

Project Description and Objectives:

- Detect Presence of Object when reversing
- If object within range, produce pulsing beep
- The frequency of beep increases as distance decreases

Design Approach/Implementation:

1. Get signal from Ultrasonic sensor
2. Use Passive Low Pass Filter to filter high frequency noise\
3. Use Comparator to determine if detection is in range
4. Use Voltage Controlled Osscilator to produce an Oscilating Wave depended on Distance of detection
5. Convert to pulsing Square Wave

Demonstrator name: Dexter Feng

Quite Complicated